FIG. 1

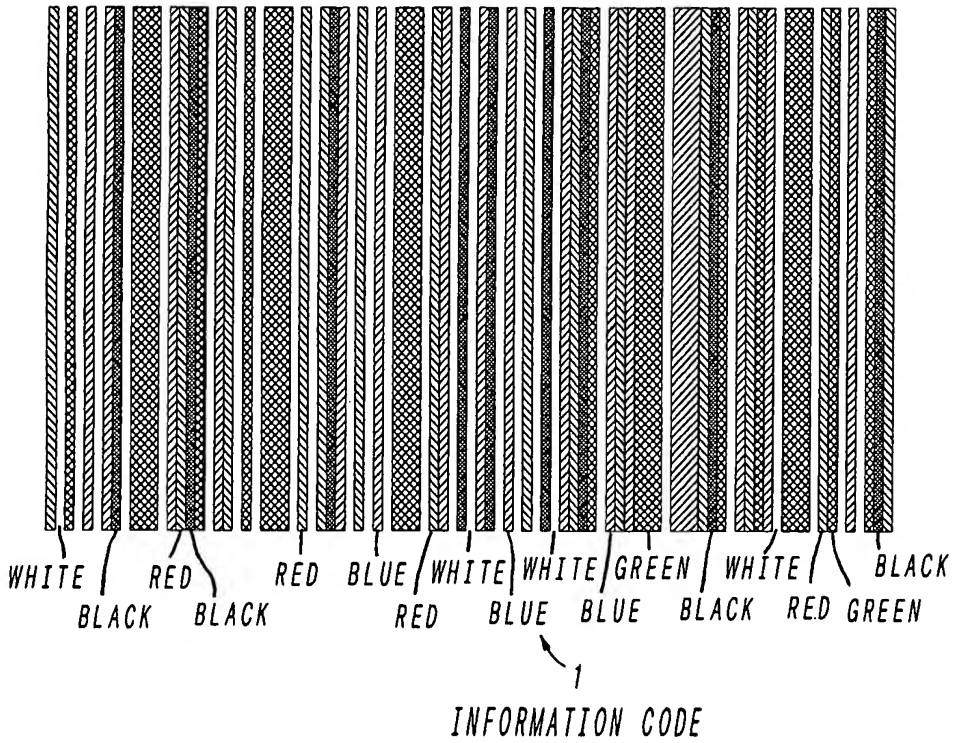

WHITE
BLACK
RED
BLACK
RED
BLUE
RED
WHITE
BLUE
WHITE
BLUE
GREEN
BLUE
WHITE
BLACK
RED
BLACK
GREEN
1
INFORMATION CODE

FIG. 2

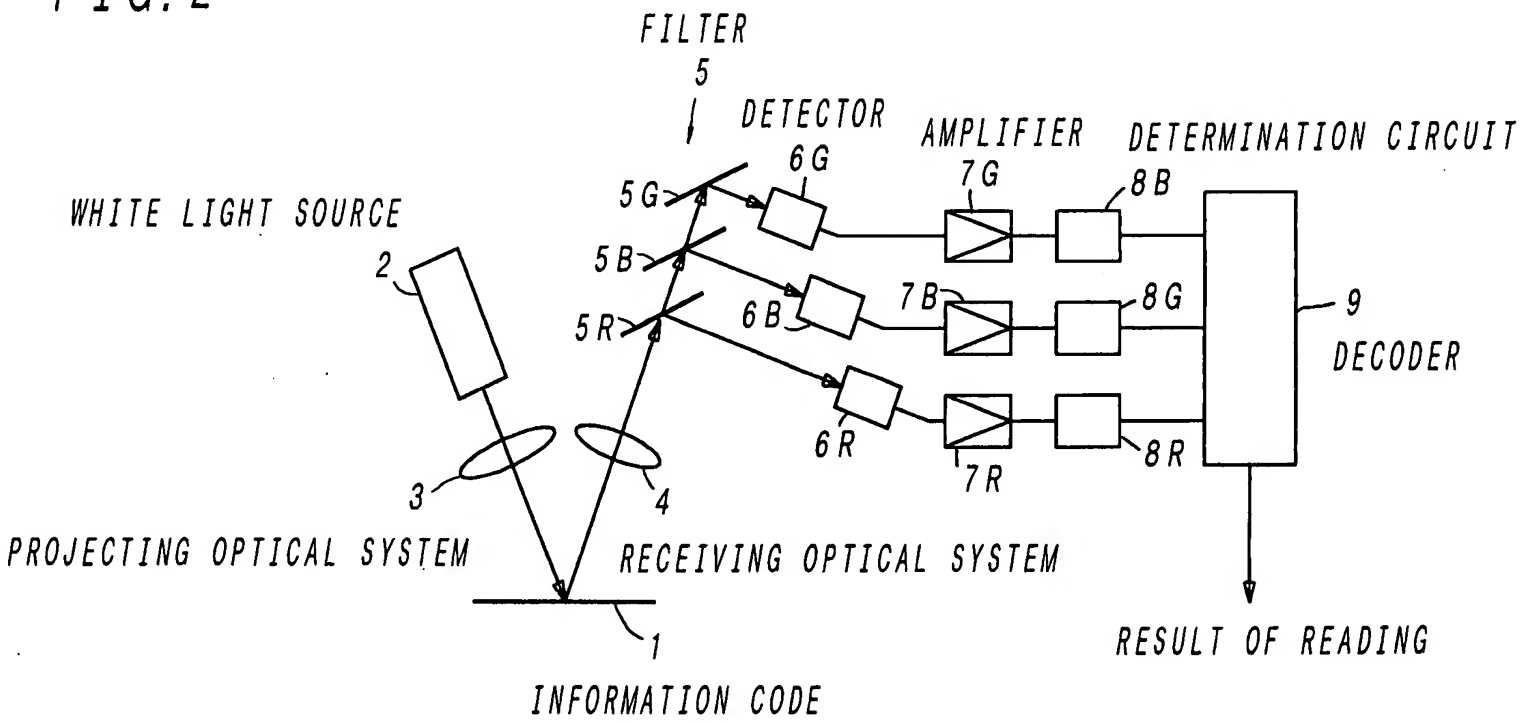

FILTER
5
DETECTOR
AMPLIFIER
DETERMINATION CIRCUIT
WHITE LIGHT SOURCE
2
5G
5B
5R
6G
6B
6R
7G
7B
7R
8B
8G
8R
9
DECODER
3
4
PROJECTING OPTICAL SYSTEM
RECEIVING OPTICAL SYSTEM
1
INFORMATION CODE
RESULT OF READING

FIG. 3

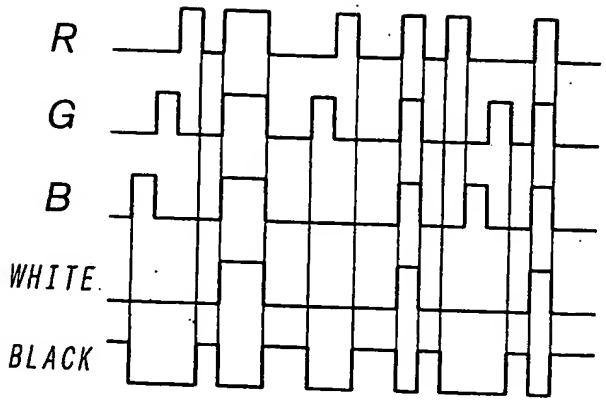

R
G
B
WHITE
BLACK

FIG. 4

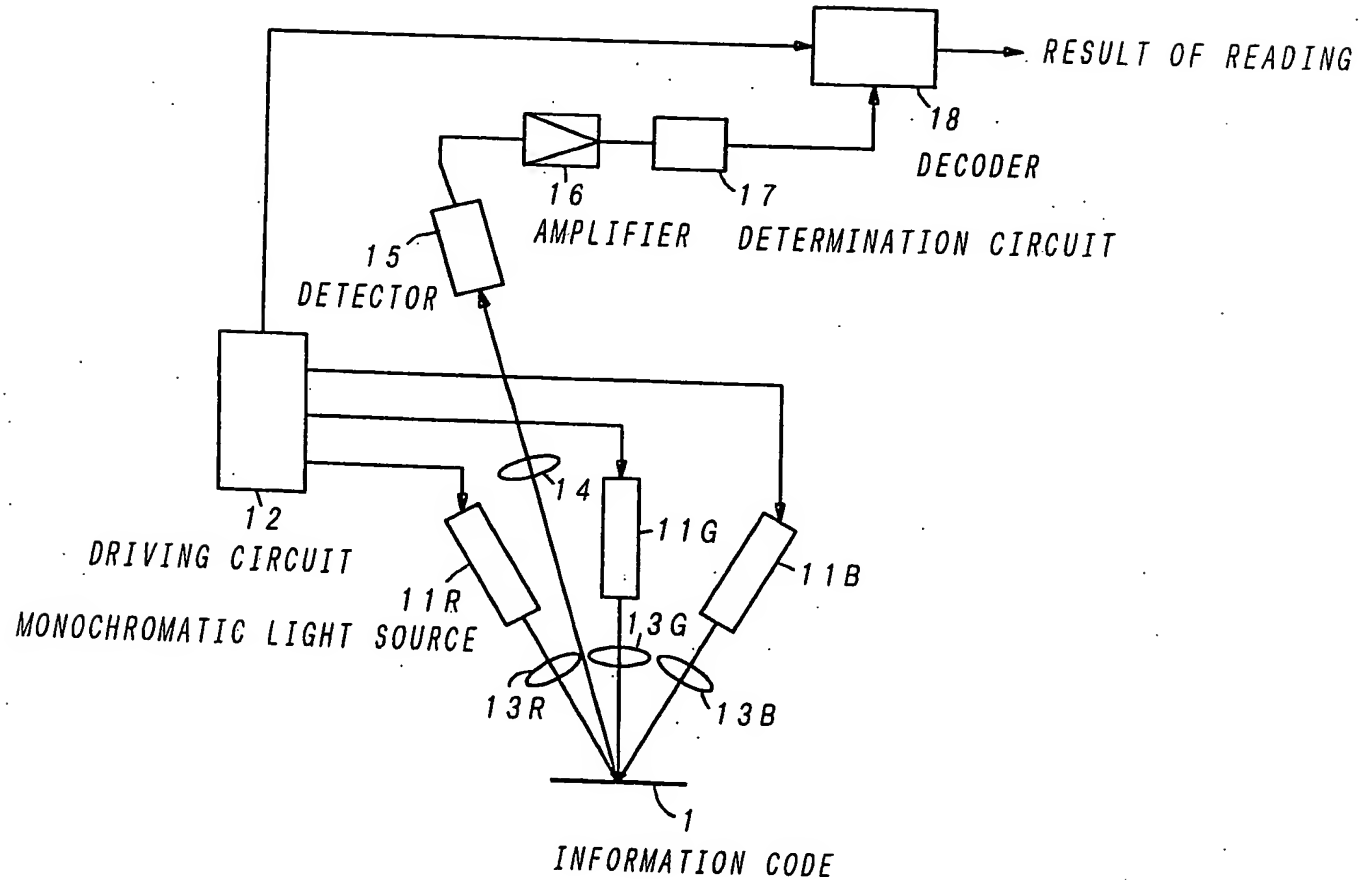

RESULT OF READING
18
DECODER
16
AMPLIFIER
17
DETERMINATION CIRCUIT
15
DETECTOR
12
DRIVING CIRCUIT
14
11G
11B
11R
MONOCHROMATIC LIGHT SOURCE
13G
13R
13B
1
INFORMATION CODE

FIG. 5

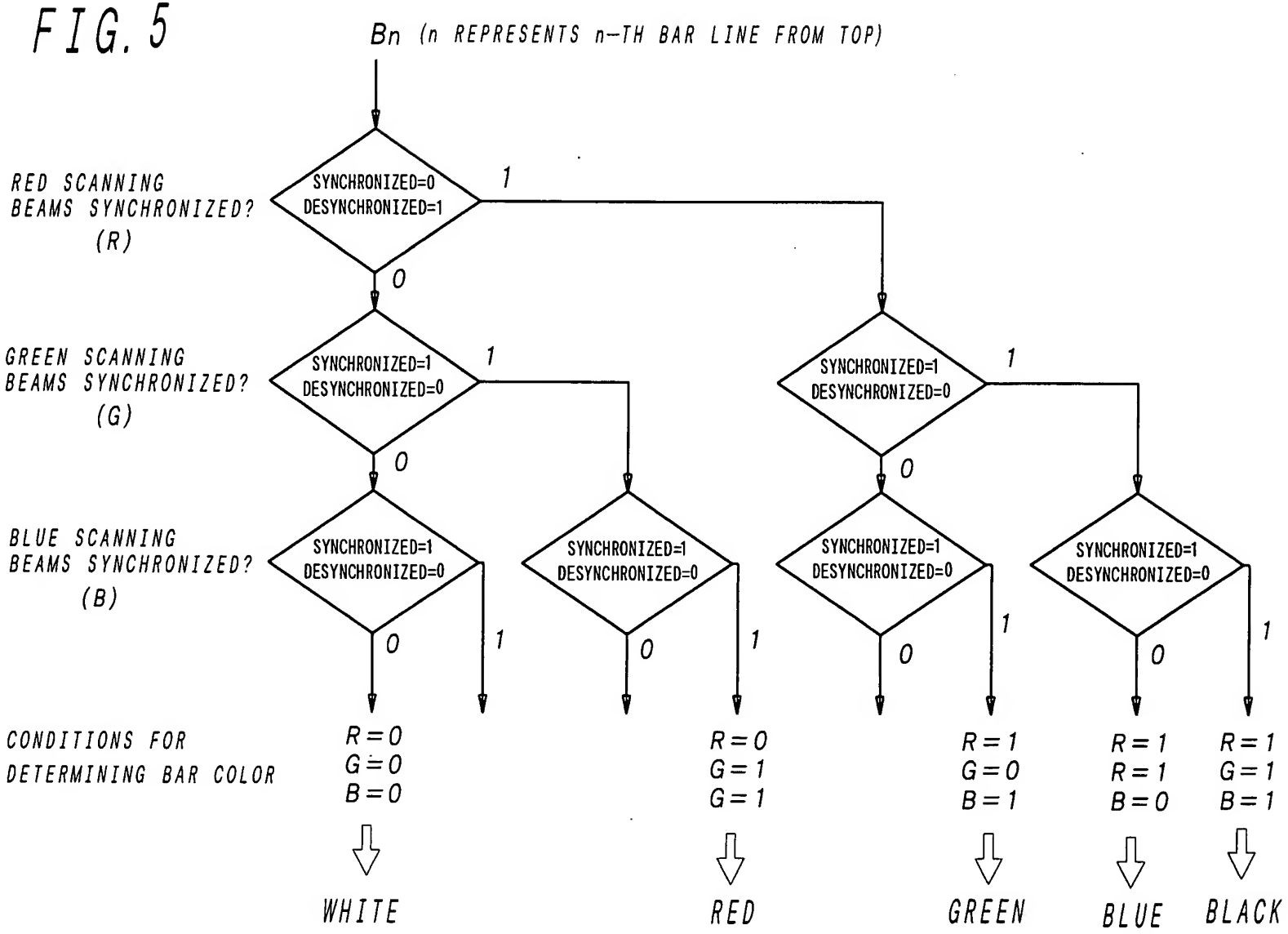

Bn (n REPRESENTS n-TH BAR LINE FROM TOP)
RED SCANNING BEAMS SYNCHRONIZED? (R)
GREEN SCANNING BEAMS SYNCHRONIZED? (G)
BLUE SCANNING BEAMS SYNCHRONIZED? (B)
SYNCHRONIZED=0 DESYNCHRONIZED=1
SYNCHRONIZED=1 DESYNCHRONIZED=0
0
1
CONDITIONS FOR DETERMINING BAR COLOR
R=0 G=0 B=0
R=0 G=1 G=1
R=1 G=0 B=1
R=1 R=1 B=0
R=1 G=1 B=1
WHITE
RED
GREEN
BLUE
BLACK

FIG. 6A

NUMBER OF SETTINGS		0	1	2	3	4	
BAR COLOR		WHITE	RED	GREEN	BLUE	BLACK	
COLOR OF EMITTED LIGHT	RED (r)	0	0	r+	r+	r+	READING OF REFLECTION RESPONSIVENESS AND OUTPUTTING SIGNAL
	GREEN (g)	0	g+	0	g+	g+	
	BLUE (b)	0	b+	b+	0	b+	
DECODING (COUNTING)		0	g+ b+	r+ b+	r+ g+	r+ g+ b+	
NUMBER OF PRESENT SIGNALS		0	1	2	3	4	QUINARY NOTATION
		7	1	2	*	8	DECIMAL NOTATION

FIG. 6B

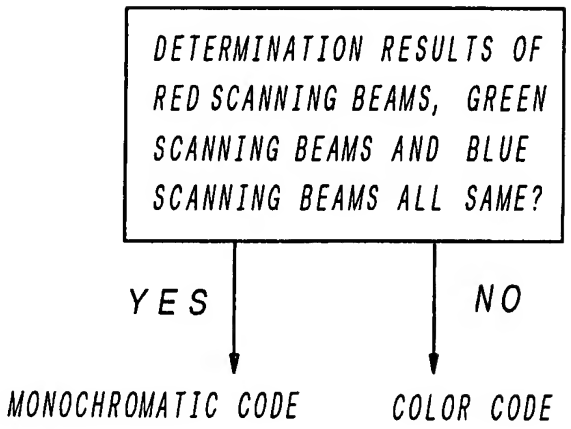
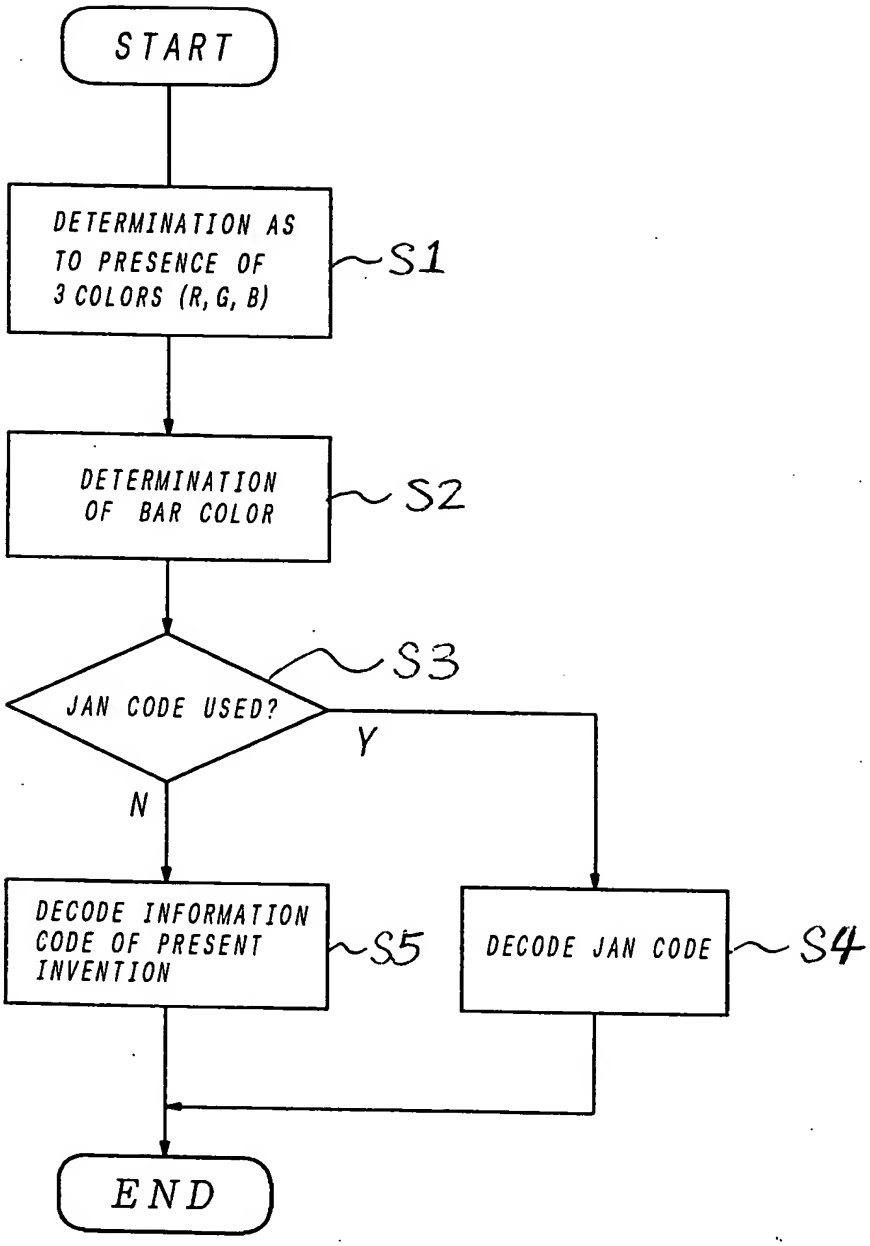


FIG. 7


START
DETERMINATION AS TO PRESENCE OF 3 COLORS (R, G, B)
S1
DETERMINATION OF BAR COLOR
S2
JAN CODE USED?
S3
Y
N
DECODE INFORMATION CODE OF PRESENT INVENTION
S5
DECODE JAN CODE
S4
END